Apple III: Interfacing a LaserWriter and III E-Z Pieces (10/94)

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TOPIC --

The following describes the connection between III E-Z Pieces on the Apple III and the LaserWriter.

DISCUSSION ---

I. Apple III:

   A. Driver: .RS232
      1. Data Configuration Block:

```
        0   1   2   3   4   5   6   7   8   9   A   B
        --  --  --  --  --  --  --  --  --  --  --  --
        0E  00  00  00  00  80  13  11  DF  84  50  00
```

        No parity is set automatically in the Printer Mode.

II. The Connection

   1. Cables

      A. Connect Modem Eliminator Cable (Part #590-0166) to the connector on the back panel of the Apple III.

      B. Connect the Serial and Communications Cable (Part #590-0037) to the connector on the Laserwriter.

      C. Connect the remaining ends of the two cables together.

      D. Here is a diagram of the connection:

```
        From:                       To:

        Apple III                   LaserWriter

        Back panel Serial Port
        DB-25 connector             DB-25 connector
```

```
        signal      -    pin  wiring  pin   -   signal

        Frame Ground  1        <->    1        Frame Ground
        Tx            2        <->    3        Rx (Receive Data)
        Rx            3        <->    2        Tx (Transmit Data)
        RTS           4        <->    4        RTS (Ready To Send)
        Signal Ground 7        <->    7        Signal Ground
        DTR           20       <->    20       Tx (Transmit Data)
```

III. LaserWriter

    1. Set the Selector Switch on the LaserWriter to "Special". This can
       be done without turning off the printer. In Diablo 630 emulation
       mode the LaserWriter uses 9600 baud, XON/XOFF protocol, and no
       parity.

IV. Verification

    1. To verify the connection, turn on the III, video monitor, and
       LaserWriter. Boot III E-Z Pieces and choose "Other Activities"
       from the Main Menu. Add a custom printer, naming it LaserWriter.

       Use these settings for this custom printer:

         1. Needs line feeds after each Return No
         2. Accepts top-of-page commands   Yes
         3. Stop at end of each page   No
         4. Platen width   8.0 inches
         5. Printer codes   Yes

       The printer codes for the Diablo Emulation are in the LaserWriter
       Technical Description. If you specifiy no printer codes, the
       typeface will default to Courier standard, 12 characters per
       inch, monospaced.

    2. Return to the Main Menu and try to print a document.

    3. Be aware that when you use the 3E-Z Pieces command OA-H (for hard
       copy), you will have to print a document using OA-P before you
       may use the OA-H command again. This is because the command OA-H
       does not issue the form feed the LaserWriter needs to clear its
       Diablo emulation settings.

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